

Bateman & Companies, Inc.

347 Madison Avenue  
NEW YORK CITY

*Manufacturers of*

IRON AGE Cultivators, Potato Machinery, Sprayers, Planters, Garden Tools, etc.; CHICOPEE LINE Plows, Corn Huskers and small Farm implements; McWHORTER Fertilizer Distributors, Seed Drills and Potato Planters; WILKINSON Plows, Scrapers, Wheelbarrows, etc.; CLARK Cutaway Harrows; CURTIS "Easy-Pull" Manure Spreaders; WORCESTER-BUCKEYE Mowers; ACME Pulverizing Harrows, etc., etc.

*District Sales Headquarters:*

New York City,

Grenloch, N. J.      Worcester, Mass.

Chicopee Falls, Mass.

# IRON AGE

## ONE-HORSE CULTIVATORS AND HORSE HOES



Cultivation is  
fertilization ..



## The Product of Four Generations



OUR GENERATIONS have participated in the development of the present line of IRON AGE Cultivators and Horse Hoes. Although the use of the name IRON AGE did not come about until 1875 when wood gave way to iron in the construction of the frames, the actual production of the line ante-dated that period by many years. In the old mill which still stands in the center of the present plant, back in 1836 Stephen

Bateman started to manufacture these tools. Since his time, three succeeding generations have carried on the business and built it up to its present high standing.

Many of those old-time tools are still in use. We show here the picture of a life-long friend with one of them that he has used for over fifty years. With only an occasional new tooth, it seems to stay as good as ever.

One might also say that there have likewise been four "generations" of IRON AGE Cultivators. First there was the small garden cultivator shown above—a quaint little tool with its heavy teeth, its wood frame that had to be weighted with a big stone—or a boy. This tool was followed by a greatly improved wood frame tool with handles. The Centennial Exposition in 1875 saw the introduction of the first IRON AGE Cultivator, which led the way for the immense number of similar tools now used the world over.

Many improvements have been added from time to time, until today we have the present line, made entirely of steel except the handles, and with many features of convenience such as wheels to regulate depth, expanders to regulate width, special analysis steel teeth, etc. Quality of the teeth stands as a feature of the greatest importance in a tool of this kind. IRON AGE Cultivator teeth and shovels are esteemed all over the world for their excellence. Each is scientifically shaped, the steel used being specially made for the purpose, and each point is reinforced or "upset" at the back.

With a few exceptions, all the Horse Hoes and Cultivators shown herein may be equipped with the Lever Wheel—a very convenient feature that regulates the depth while machine is in motion. The Expander Lever shown in Fig. 372 is another very desirable feature. This lever changes the tool instantly, while in motion to any width within range.

Simplicity, strength, rigidity, compactness, lightness, and a wonderful range of adaptability are all obtained in the IRON AGE line. A very high degree of standardization has been reached so that from comparatively few basic models, a combination can be made for every conceivable need, as will be noted by a careful study of this booklet. The tool for you is here, and we have tried to show it clearly. However, if you do not find just what you want, write us.



Fifty years of cultivating and "still going."

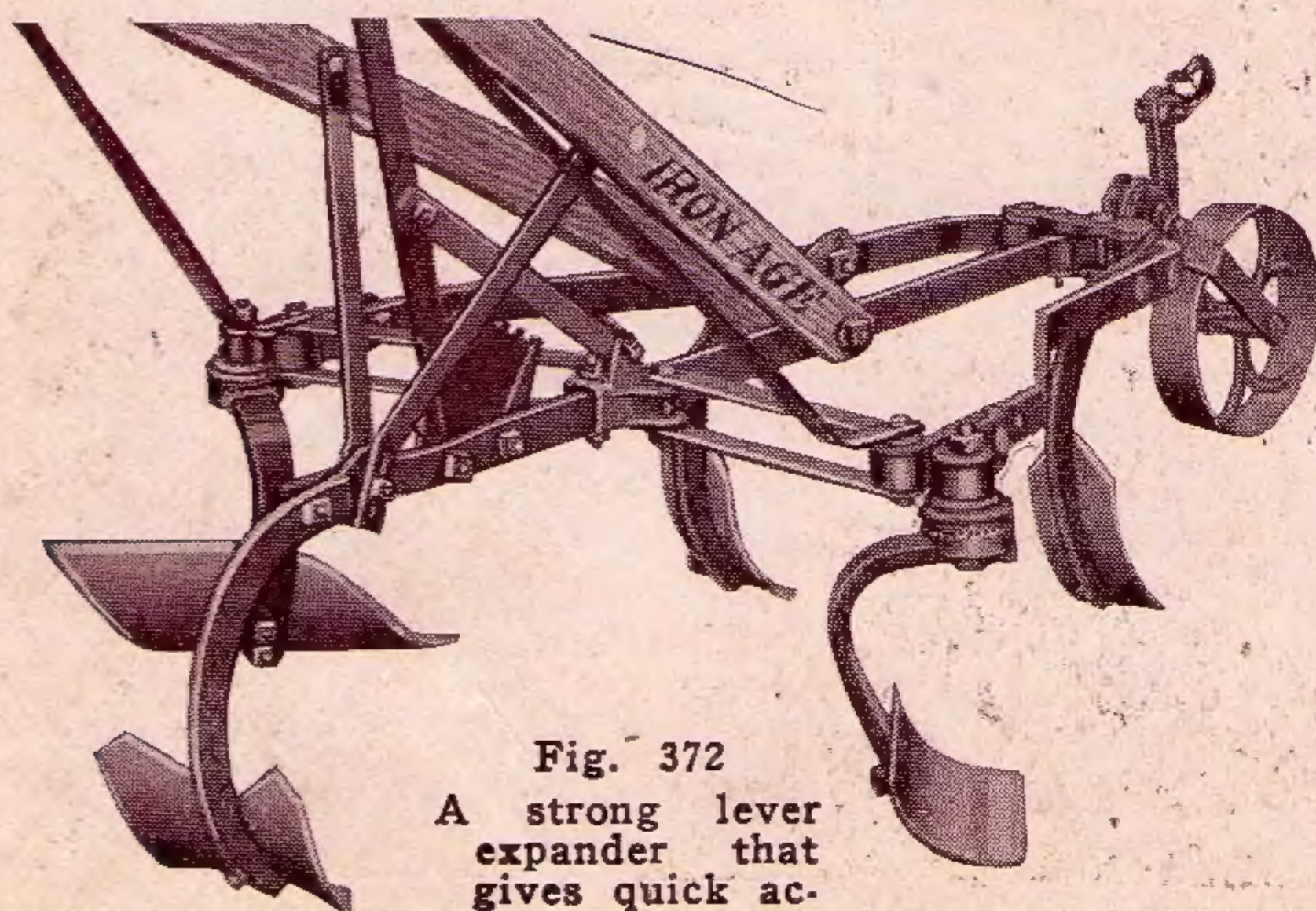


Fig. 372  
A strong lever  
expander that  
gives quick ac-  
tion.



## Attachments for Horse Hoes and Cultivators

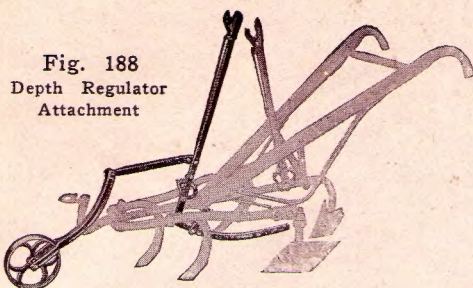


Fig. 188  
Depth Regulator  
Attachment

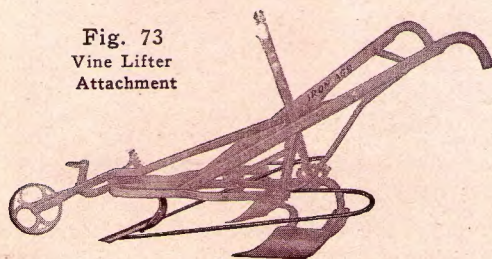


Fig. 73  
Vine Lifter  
Attachment

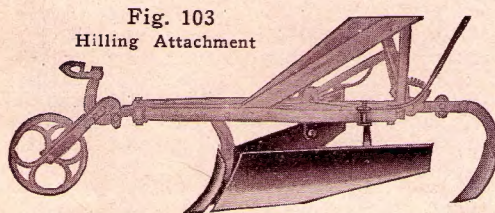


Fig. 103  
Hilling Attachment

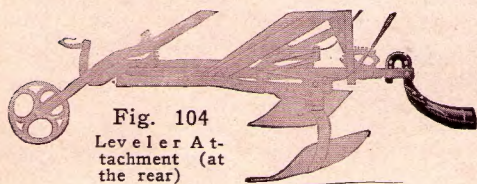


Fig. 104  
Leveler At-  
tachment (at  
the rear)

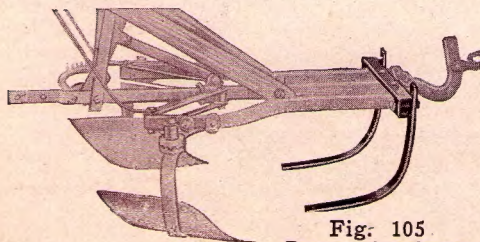


Fig. 105  
Runner Attachment

Fig. 188, adjusted with front lever, will quickly change the Depth Regulator working depth of the cultivator. Wheel and regulator work together, but Attachment either may be adjusted separately. Set the regulator at its extreme depth and you can raise the cultivator from the ground entirely and draw it easily to and from the field. Can be applied to Nos. 600, 1005 and 36. When wanted as complete machine with this attachment add D to number, as No. 600ED.

Fig. 73, used in all vine and brush crops but principally in working sweet potatoes. Easily attached. Vine Lifters Can be applied only on Nos. 600 and 1005.

Fig. 211 shows set of side hoe parts complete that will fit any Side Hoe IRON AGE Horse Hoe and Cultivator except No. 2038, for which we furnish Fig. Attachments 212. Fig. 212 also will fit any IRON AGE Horse Hoe and Cultivator shown here. Both brackets and standards are adjustable, so the hoes can be set for both angle and depth.

Fig. 103 is used in cases where higher ridging is wanted than The Hilling the regular side hoes can do. To apply, Attachment simply remove four standards, attach one of them on the middle bar and the short standards of the hilling blades to the side bars. We do not furnish any cultivator standard with this attachment. Can be applied on Nos. 600 and 1005.

Fig. 104 is used on the horse hoe when covering corn, pota- The Leveler toes, peas and other like crops. Also in making up rows for root crops etc. The side hoes are reversed for covering. Can be used on any IRON AGE Horse Hoe.

Fig. 105. When the tool is used as a cov- Runner er, steel runners can be attached in place of the wheel—this stead- Attachment ies the tool and there is no chance of displacing seed, as with the wheel. Using two horses would be still better—one would then be each side of the row and not on it. The runner attachment can be used on any IRON AGE Horse Hoe.

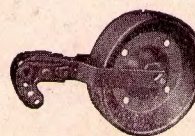
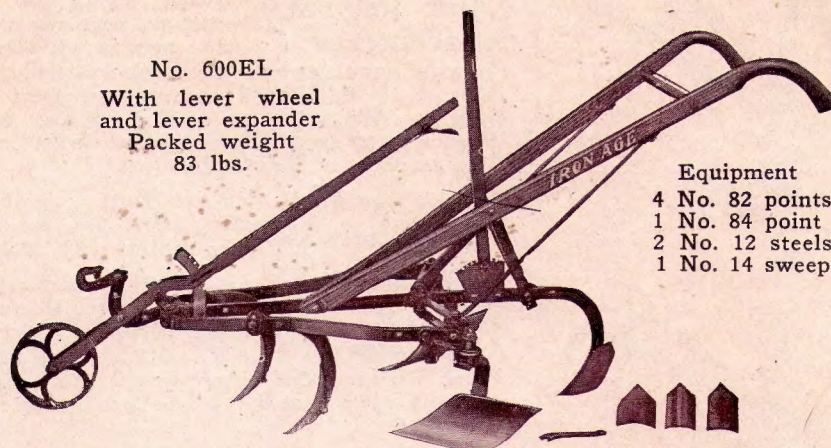


Fig. 520  
Pressed Steel Wheel

Fig. 520. We can furnish this steel wheel Pressed Steel Wheel with solid surface instead of open spokes. Naturally, it does not throw as much dirt as the open wheel. When new tool is ordered this way add letter "Y" to the number, as No. 600 ELY. If wanted as an attachment to fit any IRON AGE Horse Hoe or Cultivator, order as Fig. 520. The wheel with hub only will fit on any lever wheel IRON AGE Cultivator already in use but for other than lever wheels, this attachment needs to be complete.



## Five-Tooth Horse Hoes and Cultivators



**No. 600EL** is a built-up machine. It can be purchased as shown complete, or as a plain horse hoe without lever expander or lever wheel, or as plain five or seven-tooth cultivators, or with various attachments shown on page 2. It is only necessary to know what your conditions of ground, crop and labor need.

Simplicity, strength, rigidity, compactness, lightness and convenience are the results obtained in this line. These are all absolutely necessary because this kind of tool is often operated by careless men—it is in constant use and must wear well.

The long, high, steel frame makes the tool run steadily and clear of trash.

The hoe standards are solid steel, securely attached to the frame bars by malleable ratchet castings. These give several easy adjustments to the side hoes, sidewise and at different angles.

When used as cultivator, expands to 30 inches and closes to 14. Teeth at-

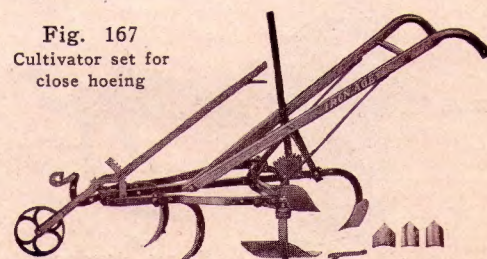
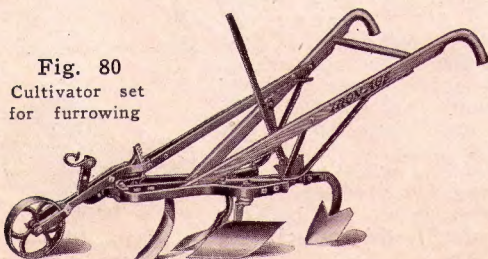
**Range of Cultivation** tached to hoe standards in same position as side hoes in *Fig. 80*, are 11 inches apart.

For close hoeing, No. 600EL may be set as in *Fig. 167*—side hoes are reversed with rounded edge forward—also to take away soil from a ridged crop. As a furrower for manure, etc., No. 600EL can be set as in *Fig. 80*, with the ratchet castings reversed on inside of the frame bars, bringing the hoes together.

Change from side to side with points forward, for covering. (See *Fig. 104*, page 2.)

The expander lever changes the tool instantly, while **Expander Lever and Lever Wheel** in motion, to any width within range. The bars, lever, and braces are steel with malleable fittings—works smoothly. See *Fig. 372*, page 1.

No. 600EL shows the *lever wheel*, at times a very necessary attachment—it regulates the working depth while the machine is in motion and saves time.





## Five-Tooth Horse Hoes and Cultivators

With lever expander and *plain wheel*. The Lever Wheel is **No. 600EP** only a convenience, which, however desirable, is not always necessary and the tool loses none of its actual working value without it. Your work may not require constant changing of the working depth—if so, this tool will be as satisfactory to you as the **No. 600EL**.

Without Lever Expander and with *plain wheel* only, this is the simplest form of the **No. 600**. It is **No. 600P** equipped with plain expander bars, held in place by a steel stirrup clamp. While this is not as convenient as the lever for adjustment, it is more rigid and makes the most durable form of horse hoe—it will stand the roughest knocking about of careless or inexperienced men.

The regular **No. 600** frame equipped with Lever Expander, *plain wheel*, and seven cultivator teeth including **No. 607EP** Fig. 180 Attachments.

On a five-tooth cultivator, the rear tooth on each side bar passes close to the crop—it stirs the soil just where it is needed, but leaves an open furrow, which should be closed. This is especially true when the cultivator is opened wide and the center tooth or sweep cannot close the furrow. The teeth on **Fig. 180** do this well. You can buy the complete machine, or the **Fig. 180** attachment to complete machine already in use. Also furnished with lever wheel, if ordered as **No. 607EL**. Also, as plain five-tooth cultivators—if with cultivator standards, order as **No. 605C**, (same as **No. 607EP** without expander lever, without wheel and without **Fig. 180**). If wanted with horse hoe standards, order **No. 605H**.

The tool may be equipped with **No. 18** sweeps as in **Fig. 101**. **To Make Wide** This gives the shallow, level cultivation, which most farmers think is the **Shallow Cut** right way to keep the moisture in the ground. The sweeps can be set to run deeper and can be used in various combinations—used a great deal for cutting out thistles. Made in 8, 10, 12 and 15-inch widths (see inside back cover). Can be applied only on **No. 600** frame.

### No. 600 Combinations:

- No. 600EL.** With Lever Expander and Lever Wheel.
- 600EP.** With Lever Expander and Plain Wheel.
- 600P.** Without Lever Expander and with Plain Wheel.
- 607EP.** 7-Tooth Cultivator with Lever Expander, Plain Wheel, and **Fig. 180**.
- 607EL.** 7-Tooth Cultivator with Lever Expander, Lever Wheel, and **Fig. 180**.
- 605C.** 5-Tooth Cultivator without Lever Expander, without Wheel, and without **Fig. 180**.
- 605H.** Same, but with Horse Hoe standards.

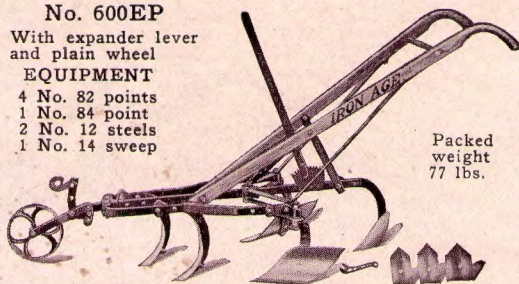
### No. 600EP

With expander lever and plain wheel

#### EQUIPMENT

- 4 No. 82 points
- 1 No. 84 point
- 2 No. 12 steels
- 1 No. 14 sweep

Packed weight 77 lbs.



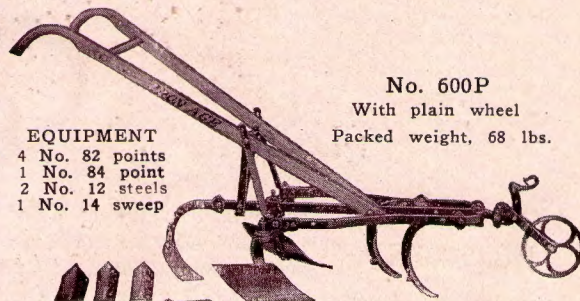
### No. 600P

With plain wheel

Packed weight, 68 lbs.

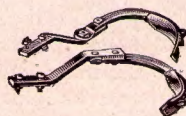
#### EQUIPMENT

- 4 No. 82 points
- 1 No. 84 point
- 2 No. 12 steels
- 1 No. 14 sweep



### Fig. 180

Furrow-closing attachment  
 No. 1 points



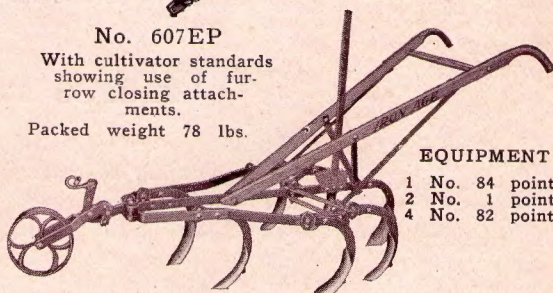
### No. 607EP

With cultivator standards showing use of furrow closing attachments.

Packed weight 78 lbs.

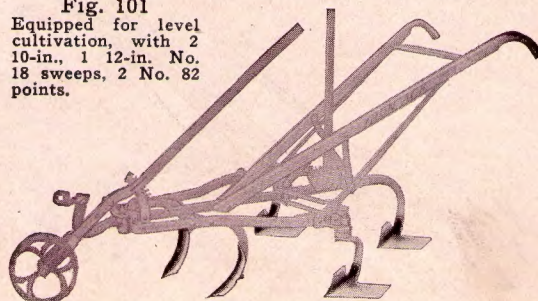
#### EQUIPMENT

- 1 No. 84 point
- 2 No. 1 points
- 4 No. 82 points



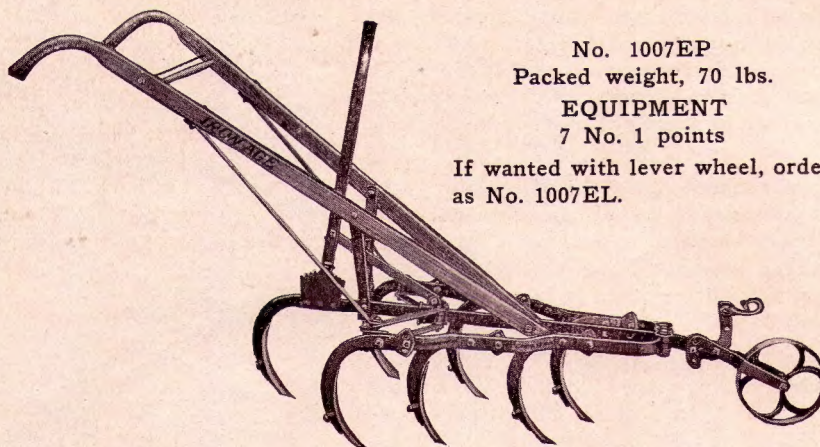
### Fig. 101

Equipped for level cultivation, with 2 10-in., 1 12-in. No. 18 sweeps, 2 No. 82 points.





## Horse Hoes and Cultivators



No. 1007EP  
 Packed weight, 70 lbs.

EQUIPMENT  
 7 No. 1 points

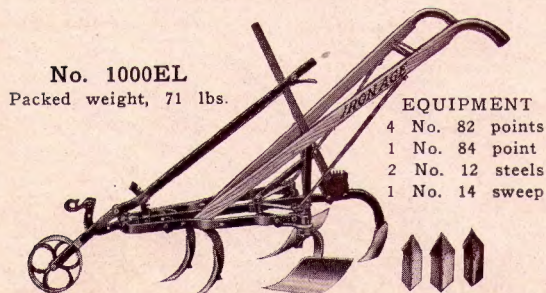
If wanted with lever wheel, order  
 as No. 1007EL.

With Lever Expander and Plain Wheel. For first workings or in level cultivation a tool of this kind is needed. Narrow teeth are used—they run deep but throw small furrows that do not harm young plants. Cultivation is done thoroughly under all conditions of soil. The frame is punched to take all seven of the teeth, therefore, they can be used as needed. Handles trussed with long steel braces. Opens to 24 inches and closes to 10 inches.

Regularly shipped with No. 1 (2-in) teeth. No. 0 (1¼-in.) teeth can be furnished when so ordered.  
 No. 1007EL With Lever Expander and Lever Wheel. With the exception of the Lever Wheel, this tool is the same as No. 1007EP.

## Horse Hoe and Cultivator

Equipped complete for hoeing or cultivating, with Lever Expander, Lever Wheel, hoes and rear steel; also the extra teeth and standards that make up the tool as a No. 1005 Five-Tooth Cultivator.  
 No. 1000EL The additional parts add greatly to the convenience and in the end are more economical. All attachments shown on page 2 can be used on any form of this tool.



No. 1000EL

Packed weight, 71 lbs.

EQUIPMENT  
 4 No. 82 points  
 1 No. 84 point  
 2 No. 12 steels  
 1 No. 14 sweep

### List of Combinations

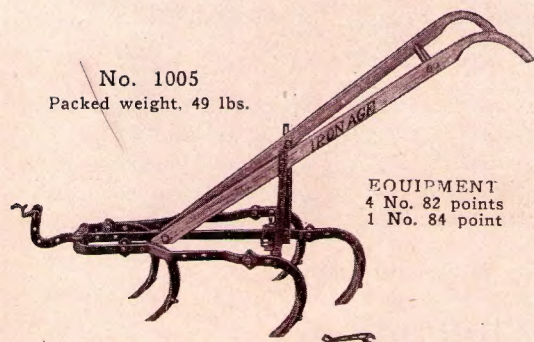
- No. 1000EL. Horse Hoe and Cultivator with Lever Expander and Lever Wheel.
- 1005 Plain 5-tooth Cultivator.
- 1005E. Five-tooth Cultivator with Lever Expander.
- 1007EL. Seven-tooth Cultivator with Lever Expander and Lever Wheel.
- 1007EP. Seven-tooth Cultivator with Lever Expander and Plain Wheel.
- 1009E. Nine-tooth Cultivator with Lever Expander.
- 1009EP. Nine-tooth Cultivator with Lever Expander and Plain Wheel.

Figs. 188, 73, 103, 105, 211 (or 211), and 520, page 2, can be used on any form of this tool.



## Horse Hoes and Cultivators

### Five-Tooth Cultivator



No. 1005  
Packed weight, 49 lbs.

EQUIPMENT  
4 No. 82 points  
1 No. 84 point

Plain, strong and simple, this is the best tool for sections where No. 1005 a strong, low-priced tool is needed; also where laborers are careless or do not know how to handle machines. When set to do certain work it does that work—cannot get out of adjustment.

A plain clamp expander adjusts the width at which the teeth are to work—opening to 24 inches and closing to 9, range enough for a wide variety of crops.

This is a high grade tool, but its price is low because levers, wheels, side hoes, etc., are left off. These extra parts can be used on this tool when wanted, but it is shown here stripped of all non-essentials.

## Horse Hoes and Cultivators

### Nine-Tooth Cultivator With Lever Expander

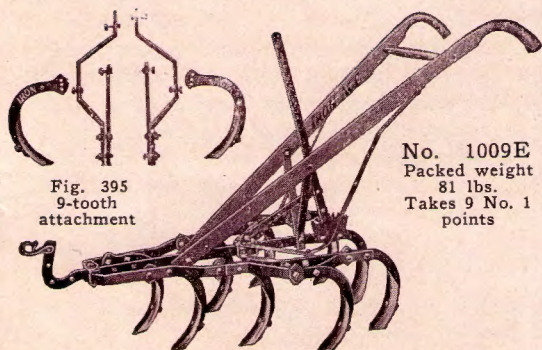


Fig. 395  
9-tooth  
attachment

No. 1009E  
Packed weight  
81 lbs.  
Takes 9 No. 1  
points

No. 1009 is a nine-tooth form of the No. 1000 series, with lever expander; the two teeth at the rear fill up the furrow on each side, left by the teeth that travel nearest the row. This prevents the hot sun and wind from burning up the roots. This tool can also be used with five or seven teeth.

With nine teeth it opens to 36 inches and closes to 21. It has a lever expander. The wide spread makes it useful as an Orchard Cultivator. The teeth are adjustable for the angle at which they enter the ground.

Fig. 395 is all that is required to make any No. 1007 cultivator into a nine-tooth machine. An extra pair of points and standards are needed to do the same for No. 1005.

A plain wheel is furnished only when ordered as No. 1009 EP. Fig. 395 and Nos. 1007-1009 take No. 1 points, and if No. 1005 is changed to nine-tooth, the points should be alike, whichever you want. We recommend No. 1 points.



## Disc Attachments

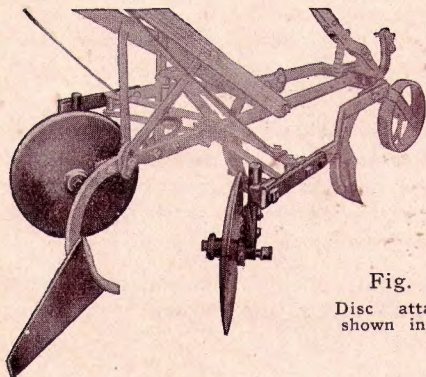


Fig. 516  
Disc attachment  
shown in black

Fig. 516 can be applied to any "IRON AGE" Five-Tooth Cultivator or Horse Hoe shipped ready to attach. Does not include rear standard or cultivator tooth but the steel steadying plate shown in black is part of the attachment. This attachment is used for ridging, for turning the soil from growing plants and for covering.

The 12-inch Discs have cast axles and chilled bearings. Sand Caps protect against dirt. Adjustable grease cups. The discs can be adjusted to any angle. Fig. 516 shows them set to throw to the row. If wanted to throw soil away, change discs to opposite sides.

## Disc Harrow Attachments

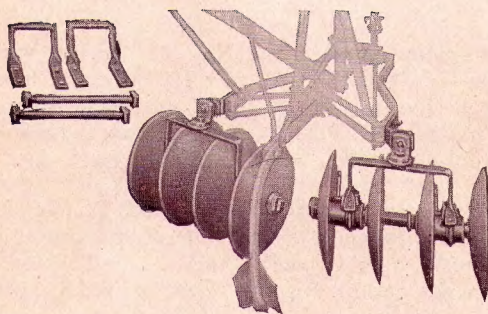


Fig. 517-8

Disc harrow attachment combined 6 and 8 discs, shown in black

With 6 discs only, order as Fig. 517-6.

Fig. 517 can be applied to any "IRON AGE" Five-Tooth Cultivator or Horse Hoe, and is shipped ready to attach. It is shown here as eight disc but can be easily changed to six by using the steel arches and axles sent with the attachment for that purpose.

The discs are 12-inch, steel axle and hard maple bearings in two parts, enclosed in cast iron dust-proof boxes. Bearings are provided with oilers and constructed so oil goes full length. The wood bearings are so placed as to take up the natural end thrust which all gangs of discs have in operation. Discs are adjustable to regulate amount of soil thrown to or taken away from the row and also to cut deep or shallow next to the crop. In sandy or light soils, with regular rows 2½ to 4 feet wide, this attachment will work middles perfectly at one trip. With average expansion of any "IRON AGE" one-horse tool, you can work close to rows 5½ feet apart and cut the centre on return trip by closing the tool. All worn parts can be easily and cheaply replaced.

Complete Disc Tools can be supplied as follows:

- No. 602EL—No. 600EL less Horse Hoe Attach., plus Fig. 516 and No. 83 Point.
- No. 603EL—No. 600EL less Cultivator Standards and Points and Horse Hoe Attach., plus Fig. 517-6 and No. 83 Point. (6 discs).
- No. 604EL—No. 600EL less Cultivator Standards and Points and Horse Hoe Attach., plus Fig. 517-8 and No. 83 Point. (8 discs).



## Horse Hoes and Cultivators

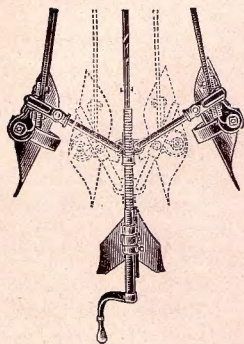


Fig. 166

Screw expander holds the hoes exactly where you want them. Note also set screw adjustment.

**No. 800P** Same with Screw Expander but with plain wheel.

The No. 36EP is especially adapted to hilling, as it is equipped with pointed blades shaped to enter hard ground. The points do not clog in sod. They do not need a change of angle because they are built for direct work. The points are bolted to the standards without blocks and always keep in position when working. Fitted with Lever Expander and plain wheel.

This cultivator expands to 24 inches and closes to 9.

Figs. 104, 105, 188, 211 (or 212), and 520, on page 2, can be applied.

### Other Combinations:

No. 36P. Horse Hoe and Cultivator, with plain wheel only.

### Light Work Five-Tooth Cultivator

The No. 37, with Clamp Expander, is built to work in light, sandy soils found in the South Atlantic and Gulf States and cannot be guaranteed in sections where the soil is different. It is a light weight tool, but the materials used are high grade and the tool is well put together. Made similar to our "Light Dixie," so well known in past years. Can also be supplied with bent side bars if so ordered.

This cultivator expands to 20 inches and closes to 9.

Figs. 104, 105, 211 (or 212) and 520, page 2, can be applied.

### Other Combinations:

No. 37E. Five-tooth Cult. with Lever Expander.

No. 37EP. Five-tooth Cult. with Lever Expander and plain wheel.

No. 37B. Five-tooth Cult. with bent side bars.

With Screw Expander and Lever Wheel. The Screw Expander used on this tool permits a much finer adjustment than a pawl and ratchet. See Fig. 166.

**No. 800L** In addition to the Screw Expander, there is a Set Screw Adjustment on each connecting rod that permits each side to be set separately for wide or narrow rows. In going twice to the row the right hand side may be drawn inwards for the second trip so that the furrows left next to the crop will be filled in. This prevents the sun and wind from drying out the roots.

The standards carrying the large side hoes may be set close together and the side hoes adjusted to form a double mold-board plow for opening furrows.

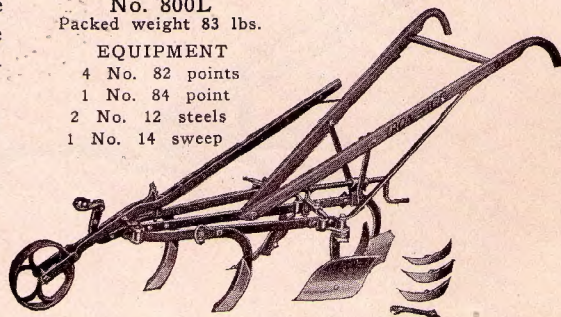
No. 800L expands to 28 inches and closes to 9.

Figs. 104, 105, 211 (or 212) and 520, page 2, may be used on this tool.

**No. 800L**  
 Packed weight 83 lbs.

#### EQUIPMENT

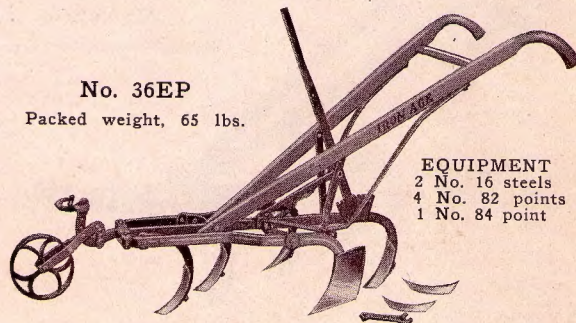
- 4 No. 82 points
- 1 No. 84 point
- 2 No. 12 steels
- 1 No. 14 sweep



**No. 36EP**

Packed weight, 65 lbs.

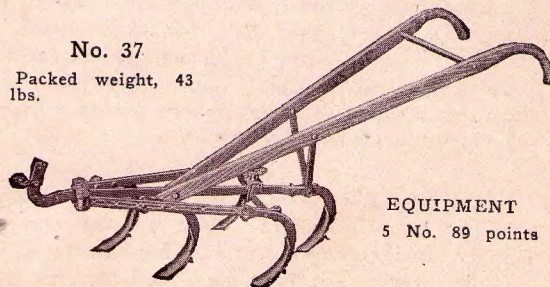
**EQUIPMENT**  
 2 No. 16 steels  
 4 No. 82 points  
 1 No. 84 point



**No. 37**

Packed weight, 43 lbs.

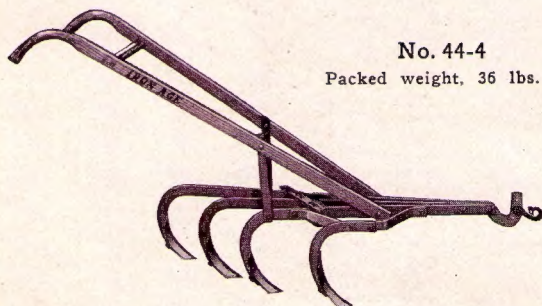
**EQUIPMENT**  
 5 No. 89 points





## Horse Hoes and Cultivators

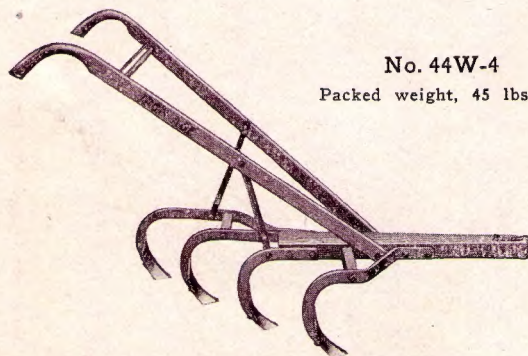
### Three and Four-Tooth Cultivators



No. 44-4  
Packed weight, 36 lbs.

One of the simplest forms of cultivators that we make. This tool enjoys a very extensive demand through many sections of the South for working in light soils. Beams are made of heavy  $\frac{1}{2}$ -inch x  $1\frac{1}{2}$ -inch steel, tapered at the front. The

**No. 44** rear are tightly clamped with six bolts, and are used for changing the width of cultivation. Special attention should be given to the way the blades follow. The teeth working nearest the plants are followed by others which fill in their furrows, leaving the ground near the plants smooth with roots well-covered. Shovels are double-pointed and measure 3-in. x 8-in. Long hardwood handles. The four-tooth style may be easily changed to the three tooth tool by removing the right hand tooth. Cultivates from 16 to 24 inches in width.



No. 44W-4  
Packed weight, 45 lbs.

This tool is similar both in quality and in purpose to the No. 44 Steel Cultivator shown above, but has a three-foot

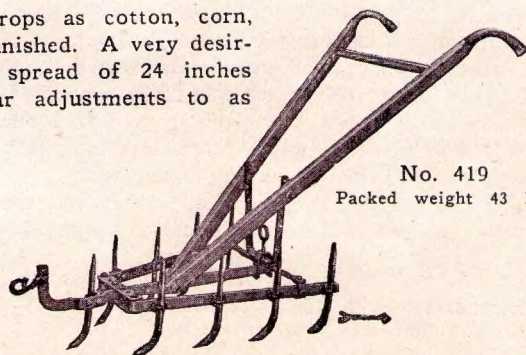
**No. 44W** wood beam instead of the separate steel beams. The steel shanks attached to the wood beam are  $\frac{1}{2}$ -in. x  $1\frac{1}{2}$ -inch. The double pointed blades measure  $3\frac{1}{2}$  inches x 8 inches. Fitted with a clevis.

#### Combinations.

- No. 44W-3 Wood Frame Cultivator with 3 No. 83 Teeth.
- No. 44W-4 Wood Frame Cultivator with 4 No. 83 Teeth.
- No. 44-3 Steel Frame Cultivator with 3 No. 82A Teeth.
- No. 44-4 Steel Frame Cultivator with 4 No. 82A Teeth.

An excellent tool designed for the cultivation of such crops as cotton, corn, tobacco and garden truck. All steel frame, strong and well finished. A very desirable tool for close work, as its regular spread of 24 inches **No. 419** can be drawn in by both front and rear adjustments to as narrow as six inches. Thoroughly pulverizes the soil and throws no dirt or clods on the plants. Front tooth may be removed for close work.

Fitted with nine  $\frac{5}{8}$ -in. x  $\frac{7}{8}$ -in. diamond-shaped steel-teeth, 11 inches long. Diamond point on one end, duck-bill on the other, easily removed. Side bars made of heavy 7-16-in. x  $1\frac{1}{4}$ -in. steel. The long hardwood handles measure four feet, eight inches in length.



No. 419  
Packed weight 43 lbs.







# IRON AGE

*Farm, Garden and Orchard Implements.*



EGG PLANTS NEED THIS CULTIVATION



CABBAGES THAT TOP THE MARKET



IN A HEAVY GROWTH OF RUTABAGAS



CONSERVING MOISTURE BY PROPER CULTIVATION FOR A BIG CROP OF LUSCIOUS STRAWBERRIES